*AP3 Rec'd PCT/PTO 18 MAY 2003

FORMPTO-1390(Modified) U.S. PATENTAND TRADEMARKOFFICE; U.S. DEPARTMENTOF COMMERCE (REV. 7-2005) ATTORNEY'SDOCKETNUMBER 135292-0001 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATIONNO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) Unknown CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 PRIORITY DATE CLAIMED INTERNATIONALAPPLICATIONNO. INTERNATIONALFILINGDATE November 19, 2003 November 19, 2004 PCT/JP2004/017292 TITLE OF INVENTION ANALOG SIGNAL INPUT/OUTPUT SYSTEM USING NETWORK LINES APPLICANT(S)FOR DO/EO/US Mikio HASEGAWA; Hiroyuki MORIKAWA; Udana BANDARA; Masugi INOUE Applicantherewithsubmits to the United States Designated/ElectedOffice (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECONDor SUBSEQUENTsubmission of items concerning a submission under 35 U.S.C. 371. \Box 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), П (9) and (24) indicated below. П The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attachedhereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. b. 🗆 is not required, as the applicationwas filed in the United States Receiving Office (RO/US). c. 🗆 An Englishlanguage translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. 🗆 is attachedhereto. has been previously submitted under 35 U.S.C. 154(d)(4). b. 🗆 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) 7. a. 🗌 are attachedhereto (requiredonly if not communicatedby the InternationalBureau). have been communicated by the International Bureau. b. 🗆 have not been made; however, the time limit for making such amendments has NOT expired. c. 🗆 d. 🗵 have not been made and will not be made. An Englishlanguage translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8. An oath or declaration of the inventor(s)(35 U.S.C.371 (c)(4)). 9. \Box An Englishlanguage translation of the annexes to the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)). A copy of the InternationalPreliminaryExaminationReport(PCT/IPEA/409). 11. A copy of the InternationalSearchReport(PCT/ISA/210). 12. Items 13 to 23 below concerndocument(s)or informationincluded: 13. An InformationDisclosureStatementunder 37 CFR 1.97 and 1.98. An assignmentdocumentfor recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. 15. A FIRST preliminary amendment. 16. A SECONDor SUBSEQUENTpreliminaryamendment. 17. A substitutespecification. A power of attorney and/or change of address letter. 18. A computer-readableform of the sequencelisting in accordancewith PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 19. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 20. 21. A second copy of the Englishlanguage translation of the International Application under 35 U.S.C. 154(d)(4). X ExpressMail Label No. 22. EV 790916375US

'AP9 Rec'd PCT/PTO 17 MAY 2006'

PTO-1390(Rev. 07-2005)
Approved for use through 3/31/2007, OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENTOF COMMERCE
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U.S. APPLICATION/O (if known, see 37 CFR 1.5) 1 Unknown 9 8 8			INTERNATIONALAPPLICATIONNO. PCT/JP2004/017292			ATTORNEY'SDOCKETNUMBER 135292-0001			
									23. Otheritems or information: Copies of Prior Art Cited in Internationa Search Report English Translation of Internationa Search Report Return Receipt Postcard
. The followin	gfees have been s	submitted:				CALCUI	LATIONS	PTOUSE	
	•				\$300	\$	\$300.00		
25. ⊠ Examinationfee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article \$0 All other situations. \$200					İ	\$200.00			
26. Searchfee (37 CFR 1.492(b)) If the writtenopinionofthe ISA/US or the Internationalpreliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Searchfee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority						,	\$ \$400.00		
	OF 24, 25 and					\$	\$900.00		
Additionalfee for specificationand drawingsfiled in paper over 100 sheets (excluding sequencelisting in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole						_			
27 - 100 =	0 /50=		0		× \$250.00	\$	\$0.00		
Surchargeof \$13	0.00 for furnishing	l gany of the se encementof th	archfee, examinatio e national stage (37	nfee, CFR	or the oath or 1,492(h)).	\$			
CLAIMS	NUMBERF		IUMBEREXTRA		RATE		-		
Total claims	16	- 20 =	0	х	\$50.00	\$	\$0.00		
Independentclair	ns 2	- 3=	0	х	\$200.00	\$	\$0.00		
MULTIPLEDEPENDENTCLAIMS(if applicable)						\$	\$0.00		
			L OF ABOVE CA			\$	\$900.00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						\$	\$0.00		
SUBTOTAL =						\$	\$900.00		
Processingfee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$	\$ \$130.00		
TOTAL NATIONAL FEE =						\$	\$ \$1,030.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +					s	\$ \$0.00			
TOTAL FEES ENCLOSED =						\$ \$1,030.00			
						Amount	to be	\$	
						Amount	to be	e	

APPREC'OPCTIPTO 179880
PTO-1390(Rev. 07-2005)
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а. 🔲	A check in the amount of \$	to cover th	e above fees is enclos					
b. 🖄	Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed.	12-2136	in the amount of \$	\$1,030.00	to cover the above fees.			
c. 🛚	The Commissioneris hereby authorized to to Deposit Account No. 12-2136		litionalfees which may copy of this sheet is en		creditany overpayment			
d. 🗀	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card informationshould not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
SEND	ALL CORRESPONDENCE O:		/ /R	LUIX				
Michae	el S. Gzybowski		SIGNATU	RE	7			
	EL LONG		Michael	S. Gzybowsk	/ i			
350 So Suite 3	uth Main Street 00		NAME					
	rbor, MI 48105		32,816					
USA			REGISTR	ATIONNUMBE	R			
			May 18,	2006				
			DATE					

Docket No. **CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)** Applicant(s): Mikio HASEGAWA et al. 135292-0001 Customer No. **Group Art Unit** Application No. Filing Date Examiner 35684 Unknown Unknown May 18, 2006 Unknown Invention: ANALOG SIGNAL INPUT/OUTPUT SYSTEM USING NETWORK LINES I hereby certify that the following correspondence: Express Mail Cover Letter; Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371 (PCT-1390/PCT/US1) (3 pgs); PCT Publication of International Application No. PCT/JP2004/017292 with Attached Search; English Translation of International Search Report; Information Disclosure Statement (with Form PTO-1449 and Reference Copies); Fee Transmittal (1 pg); and Return Post Card (Identify type of correspondence) is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 MAIL STOP PCT CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 18, 2006 (Date) Michael S. Gzybowski (Typed or Printed Name of Person Mailing Correspondence) (Signature of Person Mailing Correspondence) EV 799916375 US ("Express Mail" Mailing Label Number)

Note: Each paper must have its own certificate of mailing.

ATTORNEY'S DOCKET NO.: 135292-0001

"EXPRESS MAIL" COVER LETTER U.S. PATENT APPLICATION

Date: May 18, 2006

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Re:

APPLICANTS:

Mikio HASEGAWA, Hiroyuki MORIKAWA, Udana BANDARA, and Masugi INOUE

TITLE OF INVENTION:

ANALOG SIGNAL INPUT/OUTPUT SYSTEM USING NETWORK LINES

Sir:

Forwarded herewith is the above-identified application, consisting of the following:

Express Mail Cover Letter;

Certificate of Mailing by "Express Mail"

Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371 (PCT-1390/PCT/US1) (3 pgs)

- In Duplicate

PCT Publication of International Application No. PCT/JP2004/017292 with Attached Search Report (Publication No. PCTWO2005/050944 A1), Including Specification (22 pages), Claims (5 pages) and Drawings (15 sheets) English Translation of International Search Report

Information Disclosure Statement (with Form PTO-1449)

Copies of Prior Art References Cited in International Search Report

Fee Transmittal (1 pg)

Return Post Card

Respectfully submitted,

Michael S. Gzybowsk

Reg. No. 32,816

Attorney for Applicant

BUTZEL LONG 350 South Main Street Suite 300 Ann Arbor, MI 48104 734-995-3110 (ph)

"EXPRESS MAIL" Mailing No. EV 790916375 US

Date of Deposit:

May 18, 2006

I hereby certify that this paper is being deposited with The United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 CFR 1.10 on the date indicated above and is addressed

to the Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Michael S. Gzybowski

10/579880

Doc Code:

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Same assessment to the Connelled to	Complete if Known								
Fees pursuant to the Consolidated	Application Nu	plication Number Unknown							
FEE TRAI	Filing Date		May 18	3, 2006					
for FY	First Named Inventor Mikio			HASEGAWA et al.					
_		<u> </u>	Examiner Nam	Examiner Name Unknow			wn		
Applicant claims small en	uty status		Art Unit Unknown			wn			
TOTAL AMOUNT OF PAY	MENT	(\$) \$1,030.00	Attorney Docke	Attorney Docket No. 135292-0001					
METHOD OF PAYMENT	METHOD OF PAYMENT (check all that apply)								
☐ Check ☐ Credit Ca	Check Credit Card Money Order None Other (please identify):								
Deposit Deposi	Deposit Deposit Account Number: 12-2136 Deposit Account Name: BUTZEL LONG								
For the above-identified dep	osit accour	nt, the Director is hereby a	uthorized to: (check a	all that ap	ply)				
Charge fee	(s) indicate	d below	Chan	ge fee(s)	indicated	below, except f	or the filing fee		
Charge any additional fee(s) or any underpayments of fee(s) under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
FEE CALCULATION (AII			on filing or may	be su	biect to	o a surchar	ge.)		
1. BASIC FILING, SEARCH			,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,				
	FILING F	FEES SEAF	RCH FEES	E	EXAMIN	ATION FEES Small Entity			
Application Type	Fee (\$)	Small Entity Fee (\$) Fee (\$		_	ee (\$) 200	Fee (\$)	Fees Paid(\$)		
Utility	300 200	150 500 100 100			130	65			
Design	200	100 100			160	80			
Plant	300	150 500	250		600	300			
Reissue Provisional	200	100 0	0		0	0			
	200	100 0	Ū		·	Ū			
2. EXCESS CLAIM FEES Fee Description						Fee (\$)	Small Entity Fee (\$)		
Each claim over 20 (including	ng Reissu	es)				50	25		
Each independent claim ove	r 3 (inclu	ding Reissues)				200	100		
Multiple dependent claims						360	180 Dependent Claims		
Total Claims	Extra Clain	ns Fee (\$)	Fee Paid (\$)			Fee (\$)	Fee Paid (\$)		
- 20 or HP =		x\$50.00_	= \$0.00						
HP = highest number of total clai	ms paid for Extra Clain	, if greater than 20.	Fee Paid (\$)						
3 or HP = _		x <u>\$200.00</u>	= \$0.00						
HP = highest number of independent claims paid for, if greater than 3. 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listing under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
Total Sheets	Extra She	eets <u>Number of</u>	each additional 50						
- 100 = / 50 (round up to a whole x <u>\$250.00</u> = \$0.00									
4. OTHER FEE(S) Non-English specification, \$130 fee (no small entity discount)									
Non-English specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): Filing Fee and Late Declaration Fee for National Phase Utility Appl. \$1,030.00									
SUBMITTED BY	m 1	1.01							
Signature	Fill	W Senton	Registration No. (Attorney/Agent)	32,	816	Telephone	734-995-3110		
Name (Print/Type)		Michael S. Gzyl	bowski			Date	May 18, 2006		

This collection of information is required by 37 CFR/1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and subrigiting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.